

**ABSTRACT OF THE DISCLOSURE****5      POSITION CONTROL STRATEGY FOR REEL-TO-REEL TAPE DRIVES  
         WITH TWO TACHOMETERS**

10      The present invention provides two methods,  
apparatus, and computer instructions for controlling tape  
movement in a tape drive system. In the first method,  
the direction of tape movement is determined with respect  
to a file reel and a machine reel. If the direction of  
tape movement is toward the file reel, the tape is moved  
using machine reel control, and if the direction of tape  
15      movement is toward the machine reel, the tape is moved  
using file reel control. In the second method, the size  
of a file reel, designated as the file radius, and the  
size of a machine reel, designated as the machine radius,  
are determined. If the machine radius is smaller than  
20      the file radius, tape motion is carried out using machine  
reel control, and if the file radius is equal to or  
smaller than the machine radius, tape motion is carried  
out using file reel control.